\mathbf{X}^{b}

PCBs

Pesticide

Sediment

Core

C011

C011

C015

C015

C019

C025

C061

C067

C093

7111-2

C111-2

C112

C112

C121

C133

C135

C135

C136

C138

C144

C147

C148

C152

C156

C158

C162

C169

2172

C173

C182

C185

B2

A and B

A and B

B2

A, C and D

B and D

B and C

A, B and D

A. B and D

B and D

A, B and D

A, B and D

A and C

B and D

Archived

Interval

Metals

Analytes SVOCs

PAHs

Dioxin

TPH

Elevated levels of mercury and

Elevated levels of TPH detected

Agreed to change. Dropped C interval

TPH detected in C interval

detected in core

in C interval

		= disagree = agree but no arhived sample do to original volume limitations = questions for EPA
EPA Rationale	Agree?	Note
Additional dioxin delineation	Yes	
Mercury required due to increasing concentrations in core	Yes	
Elevated levels of PCBs; spatial coverage for dioxin off shore of OSM	Yes	
Elevated zinc in interval D	Yes	FSP already calls for this
High levels of PCBs in interval B1	Yes	G019 was selected for congener analysis, Why not do B1 instead of B2? So aroclor/congener/ dioxin data from same sample
High levels of PCBs in interval C1	Yes	G025 was selected for congener analysis. Why not do B1?
Elevated levels of mercury in interval C	Yes	
Pentachlorophenol source nearby	Yes	
Elevated levels of PCBs and PAHs in intervals A and B	Yes	
Elevated levels of PCBs and dioxins in upper intervals	Agreed to change. Dropped PCB analysis.	
Elevated levels of PCBs in interval B2	Yes	
Elevated levels of PAHs; downstream of T4	Yes	
Delineation of Dioxin offshore of Schnitzer	Yes	
Vertical delineation of TPH	Yes	C121-D already selected for PCB/Pest/SVOCs/PAH analysis, TPH will be done if adequate archive volume
Elevated levels of dioxin, DDT and PCBs in D interval	Yes	yes to PCBs, Total DDT levels comparable throughout area, will assume higher D level concentration extends upward to B level.
DDT detected at elevated levels in surrounding cores and G134	Yes	
Vertical delineation of TPH	Yes	
Elevated detections of dioxin nearby (G133-D and B012)	Yes	
DDT detected at elevated levels in surrounding cores DDT and PCBs detected at	Yes Yes	C144 is an offshore core, C144-C is already selected for PAH analysis.
elevated levels in surrounding cores; no dioxin samples nearby	-	C144 is an orising core, C144-C is aready selected for 1 Art analysis.
Elevated levels of DDT and PCBs in C interval	Yes	
DDT and PCBs detected at elevated levels in C147	Yes	
Vertical delineation of mercury and TPH	Yes	
Elevated levels of mercury and TPH detected in C interval	Agreed to change	Analyze F instead of D to get to max depth and interpolate conservatively.
Spatial coverage	Yes	nearshore core concentrations are all low or U, nearby C162 (see below) will provide spatial coverage as will DMMP surface station G-30 which is slightly inshore and between C162 and C158.
DDT and PCBs detected at elevated levels in C166	Yes	C162 is offshore and downstream of C166, so it makes sense. C162-D is already selected for metals, SVOC, and PAH analyses.
Elevated levels of copper and lead in interval E	Agreed to change. Dropped metals analysis	C164-D interval begins at 9' below mudline and is only 2' thick. We have data on C and E that shows E having highest concentrations, we will assume E segment concentrations extend upward to C segment boundary. Dropped
DDT and PCBs detected at elevated levels in surrounding cores	Yes	Nearby upstream core C171 contains elevated conc. C169-D archive already selected for metals, SVOC, and PAH analyses.
Elevated levels of PCBs detected in C interval	Agreed to change. Dropped PCB analysis	C172-E already selected for metals, PCB, Pest, SVOC, and PAH analyses, Highest adjacent PCB and other analyte values will be applied to the D segment.
DDT and PCBs detected at elevated levels in surrounding	Yes	Downstream core C171 shows elevated conce. C173-E already selected for metals, SVOC, and PAH analyses.

TPH depth not delineated, but this sample is already slated for PCB, Pest, SVOC, PAH analyses - is volume sufficient? Hg Holding time expired.

Why do need both? Do B only (higher conc), for congeners

C196	A, B and C		X	Х			X		Delineation of contamination at MarCom	Yes	yes to dioxins on A,B (C is thin and can extrapolate B level to bottom - sediments are sandy). No to PCBs/Pesticides as DMMP station C-23 and G-23 will provide delineation of these compounds in the immediate area
C202	D	X ^a						X	Elevated levels of mercury and TPH detected in C interval	Yes	
C203	С			X ^b			X		Subsurface dioxin and PCB congener data in vicinity of	Yes	
C207	В			X ^b					MarCom Subsurface congener data in vicinity of MarCom	Agreed to change. Analyze B interval	Select B instead of C
C215	В						X		Delineation of contamination at MarCom	Agreed to change. Dropped A, do dioxin in B	G215 (surface) collocated and analyzed for PCBs. C215-B and C already selected for PCB & Pest analyses.
C221	D								TPH concentrations increase with depth	Agreed to change. Dropped TPH, no archived sample	
C232	В			<u> </u>			X		Potential pentachlorophenol	Yes	
C260	D	X ^a							Source nearby Vertical delineation of mercury contamination	Yes	
C263	С			\mathbf{X}^{d}					Elevated levels of contamination in B interval; subsurface congener data at US Moorings	Dropped metals,	Yes to congener analysies. Hg and pesticide concentrations in this intermediate interval can be conservatively estimated downward from segment B.
C269	D	X ^a	X						Elevated levels of contamination in C interval	Yes	
C270	D	X ^a							Mercury levels increase with depth	Yes	
C276	D					X			Vertical delineation of PAH contamination	Yes, selected in FSP	This analysis already selected for C276-D in FSP.
C277	С			X^{b}			X		Subsurface dioxin and PCB congener data in vicinity of Willamette Cove	Yes	
C282	A, B and D							X	Bunker oil seep nearby	Yes	C282-A already selected for PCB and PAH analysis, may be insuff. volume; could use G282 for TPH (closer to shore)
C290	A, B and D		Х	Х			X	X	Delineation of contamination at Willamette Cove	Yes	
C291	A, B and C		X	X			X		Delineation of contamination at Willamette Cove	Yes	
C293-2	B2			X ^b			X		Subsurface dioxin and PCB congener and dioxin data in vicinity of Willamette Cove	Yes	
C299	A and C		X	X					Offshore delineation of PCBs and pesticides	Yes	
C300	A, B and D		X	X					Offshore delineation of PCBs and pesticides	Yes	
C302	B and C			X ^b			X		Subsurface dioxin and PCB congener data in vicinity of Wacker	Yes	
C521	B and D		X	X					Offshore delineation of PCBs and pesticides	Agreed to change. Dropped A, replace E with D for pesticides.	No to A, collocated G521 which represents A was already analyzed for Pest/PCBs. C521 B and D already selected PCB analysis in FSP; C521 C and E already selected for pesticide anlysis. Do B and D for both as requested.
C314	D	X ^a							Elevated levels of mercury detected in C interval	Yes	
C323	Е								Elevated levels of copper in C324-E	Agreed to change. Dropped metals analysis.	Concentrations decrease w/depth and this segment E is only 1 ft thick.
C327	D	X ^C		X^{b}					Mercury levels increase with depth; subsurface congener data	Agreed to change. Added metals analysis.	
C329	A, B and D							X	Elevated levels of PAH contamination; no TPH data	Yes	
C335	A, C and E							X	Elevated levels of PAH contamination; no TPH data	Yes	
C335	Е						Х		Delineation of dioxin contamination	Agreed to change. Dropped D sample.	C335-E already selected for dioxin analysis; concentrations in -B (41 pg/g) and C (11.9 pg/g) show decreasing w/depth. Will interpolate between C and E conservatively
C348	A and B						X		Delineation of dioxin contamination downstream of	Yes	,
C342	B and C			X^b			X		C351 Subsurface dioxin and PCB congener data in vicinity of	Yes	
C347	E	X ^c				X			Triangle Park Elevated levels of PAHs, copper, zinc and mercury in	Yes	
C349	D	X ^a		1					interval C Mercury levels increase with depth	Yes	
C356	D								Elevated levels of zinc and chromium in interval C	Agreed to change. Dropped metals analysis.	Sample interval less than 2 ft thick. Will extrapolate higher C levels to E
C356	A, B and D			X					Offshore delineation of PCB contamination	Yes	
C361	A and C			X					Offshore delineation of PCB contamination	Yes	B not C, there is no C at this location
C364	D	X ^a							Mercury levels increase with depth	Yes	
	-				•						

C366	F1	Ī		X		Ī	Ī		Delineation of PCB contamination,	Yes
C366	C1			X ^b			X		Subsurface dioxin and PCB congener data in vicinity of Arkema	Yes
C371	В			X^b					Subsurface congener data in vicinity of Arkema	
C377	D					X	X		Vertical delineation of dioxin PCBs, pesticides and PAHs	Agreed to change. vertical gap is ~ 3ft, will interpolate conservatively Dropped PCB/Pests analyses.
C377	Е			X ^b					Subsurface dioxin and PCB congener data in vicinity of Willbridge/Arkema	Yes C377-E was already analyzed for dioxins. Congeners will be analyzed
C379	A, B and D							X	Spatial coverage of TPH	Yes
C380	A, C and E							X	Spatial coverage of TPH; downstream from M1 Outfall	Yes
C382	В			X ^b			X		Subsurface dioxin and PCB congener data in vicinity of Shipyard/Swan Island Lagoon	Yes
C397	С			X ^b					Subsurface PCB congener data in vicinity of Shipyard/Swan Island Lagoon	Yes
C401	Е			X^b					Subsurface congener data in vicinity of Willbridge	Yes
C405	В						X		Additional dioxin data in Swan Island Lagoon (east bank)	Yes
C409	A and B	X ^e							Delineation of TBT upstream from shipyard	
C409	С			X ^b					Subsurface congener data in vicinity of Shipyard (Channel)	Yes
C415	A, B, D						X	X	Spatial coverage of TPH	Yes no A sample, will use older G415 sample archive
C417	С						X		Vertical delineation of contamination	Agreed to change. yes to dioxin, will conservatively assume higher B levels for metals, PCBs, Dropped metals, pesticides extend to D. PCB/Pests analyses.
C420	A and B	X ^e							Delineation of TBT upstream from shipyard	Yes
C420	С			X^{b}					Subsurface congener data in vicinity of Shipyard (Channel)	Yes
C421	A, B and D		X						Spatial coverage within Swan Island Lagoon	Yes
C421	Е			X					Vertical delineation of PCB contamination	Agreed to change. analyze E only and conservatively assume levels for D and F Dropped D sample.
C426	D								Elevated levels of copper detected in interval C	Agreed to change. Cu decreasing with depth, will assume C level extends to bottom of core Dropped metals analysis
C430	С						X		Additional dioxin data in Swan Island Lagoon (head)	Yes
C430	D								Vertical delineation of copper and mercury contamination	Agreed to change. will conservatively assume E levels extend upward to C Dropped metals and Ho analysis
C431	В			X^b			Х		Subsurface dioxin and PCB congener data downstream of	Yes
C431	Е								Gunderson Vertical delineation of DDT contamination	Agreed to change. C431-F already selected for Pest and SVOCs analysis, will conservatively Dropped interpolate E levels pesticides analysis
C436	A and C		X						Elevated levels of total	Yes
C436	D	X ^a							chlordane detected in C441 Mercury levels increase with	Yes
C440	A and C	L	X		L	L	L		depth Spatial coverage of pesticides	Yes
C441	A1, B1 and D1							X	Spatial coverage of TPH	Yes
C444	D	X ^a							Mercury levels increase with depth; high levels of mercury	Yes
C445	D	X							Elevated levels of arsenic, Copper, lead, zinc, PCBs and pesticides detected in interval C	Agreed to change. for PCB/Pesticides will make most conservative assumptions about D Dropped concentrations PCB/pesticides analyses
C447	A and C		X						and E Spatial coverage of pesticides	Yes
C448	A, C and E?		X					v	Spatial coverage of pesticides	Yes no E Sample for this core
C448 C453	D B			X^b			X	Х	Vertical delineation of TPH PCB and potential dioxin source area	Yes Agreed to change. congeners, dioxins on B only where conc peaks Dropped C sample
C455	B and C			X ^b			X		PCB and potential dioxin source area	Yes
C456	B and C							X	Lateral delineation of TPH	Yes
C457	D	X plus TBT		X	X	X			Elevated levels of contamination in C and E	Agreed to change. Add TBT analysis
									intervals	

C461	A, B, D					X	Spatial coverage	Yes
C477	В		X^{b}				Subsurface congener data downstream of Fire boat area	1
C494	A, B, D					X	No nearby TPH data; stormwater discharge area	Yes
C494	С		X ^b		X		Subsurface dioxin and PCB congener data in vicinity of Fire boat area	Yes

Footnotes:
a: Mercury only
b: PCB Congeners only
c: Metals and mercury
d: PCB Aroclors and Congeners
e: TBT only

Sediment Core	Archived Interval	Metals	Pesticide s	PCBs	Analytes SVOCs	PAHs	Dioxin	ТРН	EPA Rationale	Agree?	Note
C011	C2						X		Additional dioxin delineation	Yes	
C011	Е	w râ							Manager required due to	Yes	
CUII	E	X ^a							Mercury required due to increasing concentrations in core	Tes	
C015	В						X		Elevated levels of PCBs; spatial coverage for dioxin off	Yes	
C015	E	X							shore of OSM Elevated zinc in interval D	Yes	FSP already calls for this
C019	B2			X^{b}			X		High levels of PCBs in interval	Yes	G019 was selected for congener analysis, Why not do B1 instead of B2? So aroclor/congener/ dioxin data from same sample
C025	B2			X ^b			X		B1 High levels of PCBs in interval	Yes	G025 was selected for congener analysis. Why not do B1?
C061	D	X ^a							C1 Elevated levels of mercury in	No	will assume C concentration level extends to E
C067	A and B						X		interval C Pentachlorophenol source	Yes	
C093	A and B			X ^b			X	X	nearby Elevated levels of PCBs and	Yes	
C111-2	D2			X			X		PAHs in intervals A and B Elevated levels of PCBs and	No	D is middle section where conc already shown to increase only slightly from C
									dioxins in upper intervals		to E (183 ug/kg to 220 ug/kg), for this and dioxin we will assume higher concentration all the way to next adjoining data point
C111-2 C112	B2 A, C and D			X ^b				X	Elevated levels of PCBs in interval B2 Elevated levels of PAHs;	Yes Yes	
C112	B						X	Λ	downstream of T4 Delineation of Dioxin offshore	Yes	
C121	D							X	of Schnitzer Vertical delineation of TPH	Yes	C121-D already selected for PCB/Pest/SVOCs/PAH analysis, TPH will
C133	С		X	X					Elevated levels of dioxin, DDT	partial Yes	be done if adequate archive volume yes to PCBs, Total DDT levels comparable throughout area, will assume
C135	B and D		X						and PCBs in D interval DDT detected at elevated	Yes	higher D level concentration extends upward to B level.
C135	D and B		Α					X	levels in surrounding cores and Vertical delineation of TPH		
C136	B and C						X		Elevated detections of dioxin	Yes	
C138	A, B and D		X						nearby (G133-D and B012) DDT detected at elevated	Yes	
C144	A, B and D		X	X			X		levels in surrounding cores DDT and PCBs detected at	Yes	C144 is an offshore core, C144-C is already selected for PAH analysis.
C147	D		v	v					elevated levels in surrounding cores; no dioxin samples Elevated levels of DDT and	No	C147-D archive is an intermediate sample. We will assume higher
C147	D		Х	Х					PCBs in C interval	140	concentration in C segments extends to the E segment.
C148	B and D		X	X					DDT and PCBs detected at elevated levels in C147	Yes	
C152	E	X ^a						X	Vertical delineation of mercury	Yes	
C156	D	X ^a						X	and TPH Elevated levels of mercury and TPH detected in C interval	Yes	Analyze F instead to get to max depth and interpolate conservatively.
C158	A, B and D		X	X					Spatial coverage	No	nearshore core concentrations are all low or U, nearby C162 (see below) will provide spatial coverage as will DMMP surface station G-30 which is slightly inshore and between C162 and C158.
C162	A, B and D		X	X					DDT and PCBs detected at	Yes	C162 is offshore and downstream of C166, so it makes sense. C162-D is
C164	D	X							elevated levels in C166 Elevated levels of copper and	No	already selected for metals, SVOC, and PAH analyses. C164-D interval begins at 9' beloqw mudline and is only 2' thick. We have data on C and E that shows E having highest concentrations, we will assume E
C169	A and C		X	X					lead in interval E DDT and PCBs detected at	Yes	segment concentrations extend upward to C segment boundary. Nearby upstream core C171 contains elevated conc. C169-D archive already
									elevated levels in surrounding cores		selected for metals, SVOC, and PAH analyses.
C172	D			X					Elevated levels of PCBs detected in C interval	No	C172-E already selected for metals, PCB, Pest, SVOC, and PAH analyses, Highest adjacent PCB and other analyte values will be applied to the D segment.
C173	B and D		X	X					DDT and PCBs detected at elevated levels in surrounding	Yes	Downstream core C171 shows elevated conce. C173-E already selected for metals, SVOC, and PAH analyses.
C182	D	X ^a						X	cores Elevated levels of mercury and TPH detected in C interval	Yes	TPH depth not delineated, but this sample is already slated for PCB, Pest, SVOC, PAH analyses - is volume sufficient? Hg Holding time expired.
C184	B and C			X ^b					Elevated levels of PCBs detected in core	partial Yes	Why do need both? Do B only (higher conc) for congeners
C185	D							X	Elevated levels of TPH detected in C interval	Yes	
C196	A, B and C		X	X			X		Delineation of contamination at MarCom	partial Yes	yes to dioxins on A,B (C is thin and can extrapolate B level to bottom - sediments are sandy). No to PCBs/Pesticides as DMMP station C-23 and G-23 will provide delineation of these compounds in the immediate area
C202	D	X ^a						X	Elevated levels of mercury and TPH detected in C interval	Yes	
C203	С			X ^b			X		Subsurface dioxin and PCB congener data in vicinity of	Yes	
C207	С			X^b					MarCom Subsurface congener data in vicinity of MarCom	No	Will get congener data for area from C203
C215	A, B and C			X					Delineation of contamination at MarCom	No	G215 (surface) collocated and analyzed for PCBs. C215-B and C already selected for PCB & Pest analyses.
C221	D							X	TPH concentrations increase with depth	No	No archived sample
C232	В	72a					X		Potential pentachlorophenol source nearby	Yes	Hg concentration decreasing with depth. Assume C segment levels (0.2 ppm)
C260 C263	C	X ^a	X	X ^d					Vertical delineation of mercury contamination Elevated levels of	No partial Yes	extend to D segment Yes to congener analysies. Hg and pesticide concentrations in this
				21					contamination in B interval; subsurface congener data at US	·	intermediate interval can be conservatively estimated downward from segment B.
C269	D	X ^a	X						Moorings Elevated levels of	Yes	
C270	D	X ^a							contamination in C interval Mercury levels increase with	Yes	
C276	D					X			depth Vertical delineation of PAH	Yes, selected in FSP	This analysis already selected for C276-D in FSP.
C277	С			X ^b			X		contamination Subsurface dioxin and PCB congener data in vicinity of	Yes	
C282	A, B and D							X	Willamette Cove Bunker oil seep nearby	Yes	C282-A already selected for PCB and PAH analysis, may be insuff. volume;
C290	A, B and D		X	X			X	X	Delineation of contamination	Yes	could use G282 for TPH (closer to shore)
C291	A, B and C		X	X			X		at Willamette Cove Delineation of contamination	No	yes to dioxin. Surrounding samples provide horizonatal and vertical data on PCBs/Pesticides in area
C293-2	B2			X^{b}			X		at Willamette Cove Subsurface dioxin and PCB	No	
C200	A and C		X	v					congener and dioxin data in vicinity of Willamette Cove	Yes	
C299 C300	A and C A, B and D		X	X					Offshore delineation of PCBs and pesticides Offshore delineation of PCBs	Yes	
	, 2 miu D								and pesticides	j	

C302	B and C			X^b			X		Subsurface dioxin and PCB	partial Yes Why do congeners in both B and C, suggest doing B only.
C521	A, B and D		X	X					congener data in vicinity of Wacker Offshore delineation of PCBs	partial Yes No to A, collocated G521 which represents A was already analyzed for
	,								and pesticides	Pest/PCBs. C521 B and D already selected PCB analysis in FSP; C521 C and E already selected for pesticide anlysis. Recommend doing B and D for both as requested.
	D	X ^a							Elevated levels of mercury detected in C interval	Yes
	E D	X X ^a		X^b					Elevated levels of copper in C324-E Mercury levels increase with	No Concentrations decrease w/depth and this segment E is only 1 ft thick. Yes
5327	D	X		X					depth; subsurface congener	
C329	A, B and D							X	Elevated levels of PAH contamination; no TPH data	Yes
	A, C and E D and E						X	Х	Elevated levels of PAH contamination; no TPH data Delineation of dioxin	Yes No to D, E C335-E already selected for dioxin analysis; concentrations in -B (41 pg/g) and -
C348	A and B						X		contamination Delineation of dioxin	selected in FSP C (11.9 pg/g) show decreasing w/depth. Will interpolate between C and E conservatively
2346	A and B						Λ		contamination downstream of C351	
C342	B and C			X^{b}			X		Subsurface dioxin and PCB congener data in vicinity of	Yes
C347	Е	X ^c				X			Triangle Park Elevated levels of PAHs, copper, zinc and mercury in	Yes
C349	D	X ^a							interval C Mercury levels increase with	Yes
C356	D	X							depth Elevated levels of zinc and chromium in interval C	No Sample interval less than 2 ft thick. Will extrapolate higher C levels to E
C356	A, B and D			X					Offshore delineation of PCB contamination	Yes
	A and C			X					Offshore delineation of PCB contamination	Yes B not C, there is no C at this location
	D	X ^a		v					Mercury levels increase with depth	Yes No intermediate interval, conc increases from E1 (187 ug/kg) to G1 (832 ug/kg);
	F1			X			V		Delineation of PCB contamination,	we will assume G1 level extends upward to E, replicate core shows low concentrations in F1 depth interval
C366	C1			X ^b			X		Subsurface dioxin and PCB congener data in vicinity of Arkema	Yes
	В			X ^b					Subsurface congener data in vicinity of Arkema	
	D		X	X		X	X		Vertical delineation of dioxin PCBs, pesticides and PAHs	No vertical gap is ~ 3ft, for all compounds we will interpolate conservatively
C377	Е			X ^b			X		Subsurface dioxin and PCB congener data in vicinity of Willbridge/Arkema	Yes C377-E was already analyzed for dioxins. Congeners will be analyzed
C379 C380	A, B and D A, C and E							X X	Spatial coverage of TPH Spatial coverage of TPH;	Yes Yes
C382	В			X^{b}			X		downstream from M1 Outfall Subsurface dioxin and PCB	Yes
C397	С			X ^b					congener data in vicinity of Shipyard/Swan Island Lagoon Subsurface PCB congener data	Yes
									in vicinity of Shipyard/Swan Island Lagoon	
	В			X ^b			X		Subsurface congener data in vicinity of Willbridge Additional dioxin data in Swan	Yes Yes
2403	ь						Λ		Island Lagoon (east bank)	103
C409	A and B	Xe							Delineation of TBT upstream from shipyard	
C409	С			X ^b					Subsurface congener data in vicinity of Shipyard (Channel)	Yes
C415	A, B, D						X	X	Spatial coverage of TPH	Yes no A sample, will use older G415 sample archive
C417	С	X	X	X			X		Vertical delineation of contamination	partial Yes yes to dioxin, will conservatively assume higher B levels for metals, PCBs, pesticides extend to D.
C420	A and B	X ^e							Delineation of TBT upstream from shipyard	Yes
C420	С			X ^b					Subsurface congener data in vicinity of Shipyard (Channel)	Yes
C421	A, B and D		X						Spatial coverage within Swan Island Lagoon	Yes
C421 C426	D and E	X		Х					Vertical delineation of PCB contamination Elevated levels of copper	partial Yes analyze E only and conservatively assume levels for D and F No Cu decreasing with depth, will assume C level extends to bottom of core
	C	Α					X		detected in interval C Additional dioxin data in Swan	
C430	D	X ^c							Island Lagoon (head) Vertical delineation of copper	No will conservatively assume E levels extend upward to C
C431	В			X ^b			X		and mercury contamination Subsurface dioxin and PCB	Yes
C431	E		X						congener data downstream of Gunderson Vertical delineation of DDT	No C431-F already selected for Pest and SVOCs analysis, will conservatively
	A and C		X						contamination Elevated levels of total	interpolate E levels Yes
		X ^a							chlordane detected in C441 Mercury levels increase with	Yes
C440 C441	A and C A1, B1 and		X					X	depth Spatial coverage of pesticides Spatial coverage of TPH	Yes Yes
	D1 D	X ^a						Λ	Mercury levels increase with	Yes
C445	D D	X	X	X					depth; high levels of mercury Elevated levels of arsenic,	No for all analytes, will make most conservative assumptions about D
									Copper, lead, zinc, PCBs and pesticides detected in interval C and E	concentrations
C447 C448	A and C A, C and E?		X X						Spatial coverage of pesticides Spatial coverage of pesticides	Yes no E Sample for this core
	D B and C			X ^b			X	X	Vertical delineation of TPH PCB and potential dioxin	Yes partial Yes congeners , dioxins on B only where conc peaks
C455	B and C			X ^b			X		PCB and potential dioxin source area	partial Yes congeners , dioxins on B only where conc peaks
C456 C457	B and C	X		X	X	X		X	Lateral delineation of TPH Elevated levels of	Yes No for all analytes, will make most conservative assumptions about D
									contamination in C and E intervals	concentrations
	A, B, D							X	Spatial coverage	Yes
C477	В			X ^b				X	Subsurface congener data downstream of Fire boat area No nearby TPH data;	Yes
7404						1		Λ	ino nearby 1 PH data;	100
	A, B, D C			X ^b			X		stormwater discharge area Subsurface dioxin and PCB	Yes

Table 3-1. Archived Round 2A Subsurface Samples Selected for Analysis.

			MET	ALS				PESTICIDES/PCBs					SVOCs		SVOG PAHs				DIOXINS			
Core/Grab							Metals	Total		Total	PCBs	Pesticides					SVOCs Analyses			PAHs		Dioxins
Samples	Arsenic C	Cadmium	Chromium	Copper	Lead	Zinc	Analyses	PCBs	Total DDTs	Chlordanes	Analyses		Dibenzofuran	Hexachlorobenzene	4-Methylphenol	Bis(2-ethylhexyl) phthalate	(w/o PAHs)	LPAHs	HPAHs		2,3,7,8-TCDD TEQ	
LW2-C011-F1								C011-F1	C011-F1		X		C011-F1		* •		X		C011-F1	X		
LW2-C011-G2															C011-G2		X					
LW2-C015-E	C015-E C0	015-E				C015-E		C015-E	C015-E		X	X	C015-E		C015-E	G040 B4	X	C015-E	C015-E	X		↓
LW2-C019-D1	CC	019-E2			C019-E2	C019-E2		C019-D1 C019-E2	C019-D1 C019-E2		X	X				C019-D1 C019-E2	X	C019-D1	C019-D1	X		
LW2-C019-E2 LW2-C020-D		019-E2 020-D			C019-E2	C019-E2		C020-D		C020-D	X	X				C019-E2	A	C020-D		X		<u> </u>
LW2-C020-D		020-D				C022-D	X	C020-D	C020-D	С020-Б	X	Λ			C022-D		X	C020-D		Λ		
LW2-C025-D1								C025-D1			X											
LW2-C025-E2								C025-E2			X											
LW2-C027-D								C027-D			X											4
LW2-C034-F				00.50		G0.50 A	77	G0.60 A	C034-F		***	X		GO CO. A	G0.60 A		***	G0.60 A	C034-F	X	G0.60 A	
LW2-C060-A LW2-C061-B				C060-A		C060-A	X	C060-A C061-B	C060-A		X	X		C060-A	C060-A		X	C060-A	C060-A	X	C060-A	X
LW2-C061-B LW2-C061-C	-								C061-C		X	X							+			
LW2-C061-E									C061-E		X	X										
LW2-C066-F								C001 2		C066-F	- 11	X										
LW2-C111-A2								C111-A2			X					C111-A2	X				C111-A2	X
LW2-C111-D2				-														C111-D2		X		
LW2-C121-D									C121-D		X	X	C121-D		C121-D		X	C121-D	C121-D	X		┌──
LW2-C133-C	╟───├				C127 P	C127 D		C133-C			X		C125 D			C125 D	37	C127 D	C125 D	37	C133-C	X
LW2-C135-D LW2-C139-D	╂	1			C135-D	C135-D C139-D	X	C135-D C139-D	C139-D	C139-D	X	v	C135-D			C135-D C139-D	X	C135-D C139-D	C135-D C139-D	X		├──
LW2-C139-D LW2-C144-C	 					C139-D	X	C139-D	C139-D	C139-D	Λ	X				C139-D	X	C139-D C144-C	C139-D	X		
LW2-C144-E																		C144-C	C144-E	X		
LW2-C148-E					C148-E	C148-E	X											C148-E	C148-E	X		
LW2-C152-E					C152-E	C152-E	X						C152-E		C152-E		X	C152-E	C152-E	X		
LW2-C155-D															C155-D		X	C155-D	C155-D	X		
LW2-C156-F						C156-F	X						C156-F				X	C156-F	C156-F	X		
LW2-C158-E					CI CO D	CLC2 D	**						C158-E				X	C158-E	C158-E	X		
LW2-C162-D LW2-C163-D2					C162-D C163-D2	C162-D C163-D2	X						C162-D C163-D2	C163-D2	C163-D2		X	C162-D C163-D2	C162-D C163-D2	X		
LW2-C163-D2 LW2-C169-D					C163-D2	C163-D2	X							C169-D	C103-D2	C169-D	X	C163-D2 C169-D	C163-D2 C169-D	X		
LW2-C171-A					C107 D	C107 D	- 1	C171-A	C171-A		X	X	C10) D	C107 D		C10) D	- 11	C107 D	C10) D			
LW2-C171-D									C171-D		X	X	C171-D				X	C171-D	C171-D	X		
LW2-C172-E					C172-E	C172-E	X	C172-E	C172-E	C172-E	X	X		C172-E		C172-E	X	C172-E	C172-E	X		
LW2-C173-E						C173-E	X							C173-E			X	C173-E	C173-E	X		
LW2-C182-D								C182-D	C182-D		X	X	C182-D		C182-D		X	C182-D	C182-D	X		
LW2-C184-E													C185-D		C184-E C185-D	C185-D	X	C184-E C185-D	C184-E C185-D	X		
LW2-C185-D LW2-C202-D	C202-D C2	202-D	C202-D		C202-D	C202-D	X	C202-D	C202-D		X	X	C202-D		C202-D	C185-D	X	C202-D	C185-D C202-D	X		
LW2-C202-B	C202-D C2	202-D	C202-D		C202-D	C202-D		C215-B	C215-B		X	X	C202-D		C202-D		Λ	C202-D	C202-D	Λ		
LW2-C215-C										C215-C	X	X										
LW2-C221-D													C221-D				X	C221-D	C221-D	X		
LW2-C245-F																			C245-F	X		
LW2-C252-D	 					1	 	C252-D	C252-D		X	X			C252-D		X	C252-D	C252-D	X		──
LW2-C258-D									G260 D			37						C258-D		X		
LW2-C260-D LW2-C264-D	╟──┼					1	-	C264-D	C260-D C264-D		X	X	C264-D				X	C264-D	C264-D	X		├──
LW2-C264-D LW2-C269-A	 					+	1	C264-D C269-A	C204-D		X	X	C204-D			+	Λ	C204-D	C204-D	Λ		
LW2-C269-D	 					1	1	C269-D			X											
LW2-C270-D						C270-D	X		C270-D			X	C270-D	C270-D			X	C270-D	C270-D	X		
LW2-C273-D										C273-D		X	C273-D				X	C273-D	C273-D	X		
LW2-C276-D									C276-D			X			C276-D	C276-D	X	C276-D	C276-D	X		
LW2-C282-A								C282-A			X							C282-A	C282-A	X		↓
LW2-C283-D						-	-						C283-D				X	C204 E	C204 E	37		├
LW2-C284-E LW2-C293-A2	╂	-				-	-											C284-E C293-A2	C284-E C293-A2	X		
LW2-C293-A2 LW2-C293-D2	 	1				+	1								C293-D2		X	C293-A2 C293-D2	C293-A2	X		
LW2-C293-D2 LW2-C301-D						C301-A	X								CB/3 DE			22/3 DZ		- 11		
LW2-C302-D							1	C302-D	C302-D		X	X		C302-D	C302-D	C302-D	X	C302-D	C302-D	X		
LW2-C314-D						C314-D	X		C314-D	C314-D	X	X			C314-D		X	C314-D	C314-D	X	C314-D	X
LW2-C326-D					C326-D		X															
LW2-C327-D	C327-D C3	327-D		C327-D	C327-D	C327-D	X	C327-D	C327-D		X	X			C327-D		X	C327-D	C327-D	X	C327-D	X
LW2-C331-G	ii l						1					<u> </u>				C331-G	X					1

Round 2A FSP Addendum for Analysis of Archived Sediment Samples July 18, 2005 DRAFT

Table 3-1. Archived Round 2A Subsurface Samples Selected for Analysis.

			MET.	ALS				PESTICIDES/PCBs							SVOCs		GWOG	PA	AHs		DIOXINS	
Coro/Grob							Matala	Total		Total	DCD _a	Dogticidos					SVOCs			DAII		Diarina
Core/Grab	Arconio	Codmium	Chromium	Connor	Lead	Zinc	Metals		Total DDTa	Chlordanes		Pesticides	Dihanzafuran	Uavaahlanahanzana	4 Mothylphonol	Bis(2-ethylhexyl) phthalate	Analyses	I DAHG	HPAHs	PAHs	2,3,7,8-TCDD TEQ	Dioxins
Samples	Aischic	Caulillulli	Cinomium	Copper	Leau	Zilic	Analyses	T CDS	Total DD18	Cinoraures	Analyses	Analyses	Dibenzoruran	Trexacillor obelizene	4-Methylphenor	Dis(2-ethylilexyl) phthalate	(W/O PAHS)	LIAIIS	III AIIS	Analyses		
LW2-C334-D							-								G225 F		37	G225 F	GOOF F	37	C334-D	X
LW2-C335-E							1								C335-E		X	C335-E	C335-E C342-E	X	C335-E	X
LW2-C342-E LW2-C346-D							-								C346-D		v	C342-E C346-D	C342-E	X		
LW2-C347-E			-			-	1	C247 E	C347-E		- V	- V			C340-D		X	C340-D	-	X		
LW2-C347-E LW2-C349-D						C349-D	X	C347-E		C349-D	X	X			C349-D		X	1				
LW2-C364-D						C349-D	Λ		C349-D	C349-D		Λ			C364-D		X	C364-D	C364-D	X		
LW2-C372-E								C372-E			X				C372-E		X	C372-E	C304-D	X		
LW2-C372-E LW2-C373-D				C373-D		C373-D		C372-E C373-D			X				C3/2-E	C373-D	X	C372-E C373-D		X		
LW2-C373-D LW2-C382-D				C3/3-D		C3/3-D	Λ	C3/3-D	C382-D		Λ	X				C373-D	Λ	C3/3-D		Λ		
LW2-C383-D			C383-D				X		C362-D			Λ						-				
LW2-C384-F				C384-F				C384-E			X							1	C384-F	X		
LW2-C392-D				C364-F				C392-D			X							1	С364-Г	Λ		
LW2-C392-D LW2-C400-D				C400-D		C400-D	X	C400-D			X				C400-D	C400-D	X	1				
LW2-C400-D LW2-C401-F				C400-D		C400-D			C401-F		X	X			C400-D	C400-D	Λ	C401-F	C401-F	X		
LW2-C401-F LW2-C403-F			C403-F				X	С401-Г	С401-Г		Λ	Λ						С401-Г	С401-Г	Λ		
LW2-C405-F LW2-C405-E		C405-E	C405-F		C405-E	C405-E		C405-E			X				C405-E	C405-E	X	C405-E	C405-E	X		
LW2-C409-D		C403-E			C409-D	C403-E			C409-D		X	X	C409-D		C403-E	C403-E	X	C409-D	C409-D	X		
LW2-C409-D LW2-C415-E			C415-E	C409-D	C409-D		X	C409-D	C409-D		Λ	Λ	C409-D				Λ	C409-D	C409-D	Λ		
LW2-C413-E LW2-C420-D				C420-D		C420-D		C420-D	C420-D		X	X				C420-D	X	1				
LW2-C420-D					C421-D	C420-D		C420-D C421-D	C420-D		X	Λ				C420-D	Λ					
LW2-C421-F					C421-D	C421-D		C421-D C421-F			X											
LW2-C421-F LW2-C425-F1				С421-Г	С421-Г	C421-F		C421-F C425-F1			X					C425-F1	X	1				
LW2-C425-11 LW2-C426-A								C423-11			Λ					C423-1·1	Λ	1	C426-A	X	C426-A	X
LW2-C430-A	C430-A	C430-A	C430-A	C430-A	C430-A	C430-A	X	C430-A			X							C430-A	C420-A	X	C420-A	Λ
LW2-C430-A	C430-A	C430-A	C430-A	C430-A	C430-A	C430-A	Λ	C430-A	C431-F		Λ	X			C431-F		X	C430-A	C430-A	Λ		
LW2-C431-I							1		C431-1			Λ			C431-1		Λ	1	C434-A	X		
LW2-C434-A LW2-C436-E	C436-E	C436-E	C436-E	C436-E	C436-E	C436-E	X	C436-E			X		C436-E		C436-E		X	C436-E	C+3+-A	X		
LW2-C439-D	C430-L	C439-D			C439-D	C439-D		C439-D			X		C430-L		C439-D	C439-D	X	C430-L	C439-D	X		
LW2-C440-D	C440-D	C+3)-D		C440-D	C440-D	C440-D		C440-D			X				C440-D	C+37-D	X	1	C-440-D	X		
LW2-C444-E	C440-D			C444-E	C444-E	C444-E		C444-E	C444-E		X	X			C444-E		X		C-440-D	Λ		
LW2-C445-D				Сттт Б	CTTTL	CTTTL		Сттъ	CTTT L		- 21	- 21		CTTT L	СТТЕ		71	1	C445-D	X		
LW2-C447-F							-								C447-F		X	1	CTTS D	21		
LW2-C448-D		C448-D		C448-D	C448-D	C448-D	X	C448-D			X				C++/ 1	C448-D	X	1				
LW2-C454-H		CTIO D		C110 D	C 110 B	CTIOD		CITOD			21				C454-H	C110 B	X	1				
LW2-C455-F								C455-F			X				C455-F		X	C455-F		X		
LW2-C456-G								C+33 I			21				C+33 I		71	C456-G	C456-G	X		
LW2-C458-D1							-		C458-D	C458-D		X						C+30 G	C+30 G	21		
LW2-C458-D2								C458-D2	C 150 B	C 150 B	X	21										
LW2-C461-D				C461-D	C461-D			C461-D			X				C461-D	C461-D	X	1				
LW2-C462-D				C+01 D	CTOI D			C462-D			X				C462-D	C+01 B	X	1				
LW2-C468-D								C468-D			X					C468-D	X	1				
LW2-C471-D								C471-D			X				C 100 B	C 100 B	71	1				
LW2-C471-D								C471-D C474-D			X				C474-D		X				1	
LW2-C494-A							1	C494-A			X				C./1D		21	 				
LW2-C521-B							1	C521-B			X										1	
LW2-C521-C							1		C521-C		- 11	X						1			1	
LW2-C521-D							1	C521-D	502. 0		X		C521-D		C521-D	C521-D	X	1	C521-D	X	1	
LW2-C521-E									C521-E		X	X	23212				**	1	302. D		1	
	= Total No	of Samples S	Selected																			
TOTALS/Analyte	6	10	7	16	22	32	40	63	38	9	63	39	24	10	38	21	62	52	52	62	8	8
· · · · · · · · · · · · · · · · · · ·				- 0							, ,,,	/				1 1				u		

Selection Rationale (see text for additional information)

- 1. Concentrations increase with depth above the archived segment.
 2. Concentration in deepest analyzed segment appears to be locally elevated.
 3. Vertical gap (several foot interval) between steep concentration gradient.
 4. Core and surface grab locations substantially offset, and elevated concentrations evident in B core segment (analyze A segment).
- 5. LWG request.